

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office

radica	COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450
	www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/050,020	10/23/2001	Dawn E. Smith	1973.PSA	5578
75	590 05/12/2004	EXAMINER		
Cynthia L. Fo		LEE, RIP A		
	TARCH AND CHEMI	ART UNIT	PAPER NUMBER	
10 Finderne Av		ARTONII	I AI EK NOMBEK	
Bridgewater, NJ 08807-0500			1713	

DATE MAILED: 05/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/050,020	SMITH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Rip A. Lee	1713				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 03 Ma	arch 2004.					
2a) This action is FINAL . 2b) ⊠ This	2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•					
4) Claim(s) <u>1-4,6-10 and 12-20</u> is/are pending in t	he application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-4, 6-10 and 12-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	·.					
10) The drawing(s) filed on is/are: a) acce		Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	. 					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) This office action follows a response filed on March 3, 2004. Claims 1-4, 6-10, and 12-

20 are pending.

3.

Claim Objections

1. Claim 20 is objected to because of the following informalities: Please check the

dependency of the claim. The claim is drawn to a method, but claim 17 is drawn to an article.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-4, 6-10, and 12-20 are rejected under 35 U.S.C. 112, second paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention. Claims 1, 10, and 19 recite the phrase "at least about." The

phrase renders the claim vague and indefinite because it is not clear where the lower bound of

the range actually lies. The terms "at least about" and "above about," which appear in claims 2,

12, 13, and 18 are also indefinite since it is not clear where the upper and lower bound of these

ranges actually lies. See MPEP § 2173.05(b). Since claims 1, 10, and 19 are rejected, it follows

that corresponding dependent claims are also rejected under 35 U.S.C. 112, second paragraph.

Application/Control Number: 10/050,020 Page 3

Art Unit: 1713

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1, 2, 6-15, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by

U.S. Patent No. 5,409,977 to Sitaramiah et al.

Sitaramiah et al. teaches a repositionable glue stick comprising at least 10 wt% of a

(meth)acrylate copolymer microsphere and up to 26 wt % of a binder component comprising a

pressure sensitive adhesive polymer (claim 1) wherein the binder is a blend of polyvinyl

pyrrolidone and *n*-butyl acrylate (claim 5). The acrylate binder component is commercially

available as Rhoplex N-580 (col. 4, line 59). Example 1 shows that the weight ratio of n-butyl

acrylate emulsion to polyvinyl pyrrolidone is about 10:1 (see table). The glass transition

temperature T_g of poly(n-butyl acrylate) is -54 °C, and T_g of polyvinyl pyrrolidone lies in the

range of 54-86 °C.[‡] Clearly, the difference between the glass transition temperatures of both

polymer is greater than 60 degrees. That the adhesive is repositionable implies it is removable.

as recited in the present claims.

[†] MSDS for Rhoplex N-580 (attached) indicates that the material is polymeric, despite its monomeric

sounding common name.

[‡] Polymer Handbook, 1999, VI/199 and VI/217, attached.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,409,977 to Sitaramiah *et al*.

The discussion of the disclosures of the prior art of Sitaramiah *et al.* from paragraph 5 of this office action is incorporated here by reference. The text is silent with respect to the dry weight of binder component, however, in light of the fact that the binder constitutes up to 26 wt % of the overall adhesive composition, a reasonable basis exists to believe that the dry weight lies in the claimed range of 1-60 wt %, or the narrower range of 5-20 wt %. Since the PTO can not conduct experiments, the burden of proof is shifted to the Applicants to establish an unobviousness difference. *In re Fitzgerald*, 619 F.2d. 67, 205 USPQ 594 (CCPA 1980). See MPEP § 2112-2112.02; *In re Best*, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). *In re Spada*, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990).

Application/Control Number: 10/050,020 Page 5

Art Unit: 1713

Response to Arguments

9. Applicants traverse the rejection of claims 35 U.S.C. 112, second paragraph. Applicants

submit that the rejection is incorrect in light of MPEP § 2173.05(b)[†] because "such close prior art

has not been applied in the subject application." This is correct. And, because no prior art

exists, and since there is nothing in the specification or prosecution history that indicates what

range of T_g is covered by "about," the claims are held indefinite. Relevant pages from 18

USPQ2d 1016 accompany this office action for review.

10. The rejection of claims 1-15 and 18-20 under 35 U.S.C. 102(b) as being anticipated by

U.S. Patent No. 5,631,079 to Gutman et al., set forth previously, is in error. Therefore, the

rejection has been withdrawn.

[†] Amgen, Inc. v. Chugai Pharmaceutical Co., 927 F.2d 1200, 18 USPQ2d 1016 (Fed. Cir. 1991).

Application/Control Number: 10/050,020

Art Unit: 1713

Page 6

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Rip A. Lee whose telephone number is (571)272-1104. The

examiner can be reached on Monday through Friday from 9:00 AM - 5:00 PM. If attempts to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be

reached at (571)272-1114. The fax phone number for the organization where this application or

proceeding is assigned is (703)872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on the access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

ral

May 6, 2004

Q W

DAVID W. WU SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700